

rophila HARA ト名付ケル。

58) 上州あづまぎく (新稱) 上州、至佛山・谷川岳上ニアルあづまぎくノ一種デ、みやまあづまぎくヨリ瘦形デ、葉ガ細ク毛ガ少ク、莖ハ暗紫色ヲ帶ビ立ツタ毛ト微小ナ伏臥毛ガアル。新種トシ、**Erigeron heterotrichus** HARA トシタ。あづまぎく類ハ最近 *Aster* ニ入レル學者ガ多ク、總苞ノ性質カラ云ツテモソノ方ガ妥當カモ知レナイ。尙みやまあづまぎくハ歐洲ノ *Erigeron glabratus* HOPPE et HORNSCHUCH トハ異ルモノデアル。

Japanese Marsh St. John's-wort*

by

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木村陽二郎： みづおとぎりニ就テ

The Japanese Marsh St. John's-wort has been studied by many botanists, but its proper name has not yet been definitely settled and therefore it has numerous synonyms. The Japanese Marsh St. John's-wort belongs to the genus *Triadenum* proposed by RAFINESQUE. It clearly differs from *Hypericum* and the nearest genera, *Elodes* of ADANSON and *Elodes* of SPACH, as ÉDOUARD SPACH has already indicated in *Histoire naturelle des Végétaux V*. The allied genera of *Elodes* and *Hypericum* may be distinguished as indicated in the following key. *Elodes* of SPACH can not be mixed with *Elodes* of ADANSON. It has sufficient characteristics for a distinct genus, and I propose a new name *Spachelodes* for it.

1. Petala et sepala 5. Petala æquilaterialia, sæpe appendiculata. Stamina altius connata, androphoris cum glandulis hypogynis alternantibus. Fructus sæpe indehiscens et carnosus. Semina alata v. exalata. . . . 2
1. Petala et sepala 4 v. 5. Petala sæpissime inæquilaterialia, intus calva. Stamina breviter connata v. libera. Glandulæ hypogynæ nullæ. Fructus

* Contribution from the Laboratory of Systematic Botany (Prof. T. NAKAI) of the Botanical Institute, Faculty of Science, Tokyo Imperial University.

- capsularis septicide dehiscens. Semina exalata *Hypericum* etc.
2. Androphora 5. Ovarium e carpidiis 5 compositum. Fructus carnosus et indehiscens. *Vismia* etc.
 2. Androphora 3. Ovarium e carpidiis 3 compositum. Fructus sæpissime capsularis. 3
 3. Ovula ascendentia. Capsula sæpe loculicide dehiscens. Semina alata. *Cratoxylon* etc.
 3. Ovula horizontalia. Capsula septicide dehiscens. Semina exalata. 4
 4. Flores in apice ramulorum terminales solitarii et infrorescentiam paniculæformem formantes. Petala foveola. Ovarium pseudo-3-loculare. Glandulæ hypogynæ pariæ carnosæ. *Elodes* ADANSON.
 4. Cymus multiflorus terminalis. Petala appendiculata. Ovarium 1-loculare. Glandulæ hypogynæ bifidæ petaloideæ. *Spachelodes* Y. KIMURA.
 4. Racemus brevis 3 (1-5) florus terminalis atque axillaris. Petala intus calva. Ovarium pseudo-3-loculare. Glandulæ hypogynæ indivisæ subcoriaceæ. *Triadenum* RAFINESQUE.

The synonyms and the type species of the latter three genera are the followings.

1) **Eldodes** CLUSIUS ex ADANSON, Fam. Pl. II, p. 444 (1763).

Syn. *Hypericum* pro parte; LINNÆUS, Sp. Pl. ed. 1, II, p. 783 (1753); BENTHAM et HOOKER, Gen. Pl. I, p. 165 (1862).

Hypericum sect. *Perforalia* CHOISY, Prod. Hyp. p. 44 (1821) et in DC. Prodr. I, p. 546 (1824) pro parte.

Martia SPRENGEL, Syst. Veg. III, p. 333 (1826) pro parte.

Triandenia SPACH in Ann. Sci. Nat. 2 sér. V, p. 172 et p. 323 (1836) et Hist. Nat. Vég. V, p. 370 (1836).

Elodea-Triandenia ENDLICHER, Gen. Pl. II, p. 1033 (1840).

Triandenia sect. *Eutriandenia* BOISSIER, Fl. Orient. I, p. 783 (1867).

Hypericum sect. *Triandenia* KELLER in Engler, Pf.-fam. ed. 1, III, Abt. 6, p. 208 (1895) et ed. 2, XXI, p. 175 (1925).

Typus generis :

1) **Elodes ægyptica** (LINNÆUS) Y. KIMURA, comb. nov. (*Elodes ægyptiaca*

PAYER)¹⁾.

Syn. *Hypericum ægypticum* LINNÆUS, Sp. Pl. ed. 1, II, p. 784, no. 9 (1753).

Hypericum ægyptiacum LINNÆUS, Amœn. Acad. VIII, p. 323, t. 8, f. 3 (1785).

Martia polyandra SPRENGEL, Syst. Veg. III, p. 333 (1826).

Triadenum micropaylla SPACH in Ann. Sci. Nat. 2 sér. V, p. 173 cum pl. 4 et p. 323 (1836); Hist. Nat. Vég. V, p. 370 (1836).

II) **Spachelodes**²⁾ Y. KIMURA, nom. nov.

Syn. *Hypericum* pro parte; LINNÆUS, Sp. Pl. ed. 2, II, p. 1101 (1763); SPRENGEL, Syst. Veg. III, p. 341 (1826); REICHENBACH, Fl. Germ. p. 836 (1832).

Hypericum sect. *Perforaria* CHOISY, Prodr. Hyp. p. 44 (1821) et DC. Prodr. p. 546 (1824) pro parte.

Elodes (non ADANSON) SPACH in Ann. Sci. Nat. 2 sér. V, p. 171 et p. 354 (1836 et Hist. Nat. Vég. V, p. 369 (1836); REICHENBACH, Ic. Fl. Germ. & Helv. p. 68, Pl. 342 (1844); GRENIER et GODRON, Fl. France, I, p. 326 (1848); THOMÉ, Fl. Deutch. III, p. 270 (1905).

Elodea-Elodes ENDLICHER, Gen. Pl. II, p. 1033 (1840).

Hypericum sect. *Elodes* SYME, English Bot. II, p. 159 (1873); KELLER in Engler, Pf.-fam. ed. 1, III, Abt. 6, p. 208 (1895) et ed. 2, XXI, p. 175 (1925).

Tpyus generis :

2) **Spachelodes elodes** (HUDSON) Y. KIMURA, comb. nov.

Syn. *Hypericum supinum* CLUSIUS, Rar. aliq. Hist. p. 427 cum fig. (1756).

Ascyrum supinum villosum palustre BAUHINUS, Pinax Theat. Bot. p. 280 (1623).

Ascyrum supinum ελωδης CLUSIUS ex BAUHINUS, l. c. p. 280 (1623).

Hypericum palustre, supinum, tomentosum TOURNEFORT, Inst. Rei Herb. I, p. 255 (1700).

Hypericum elodes HUDSON, Fl. Angl. ed. 1, P. 292, no. 8 (1762).

Hypericum elodes LINNÆUS, Sp. Pl. ed. 2, II, p. 1106, no. 23 (1763).

Hypericum palustre SALISBURY, Prod. p. 362 (1793).

¹⁾ in Organog. Fl. Comp., p. 8, t. 1 (1857).

²⁾ Etymology: *Elodes* of SPACH.

Elodes palustris SPACH in Ann. Sci. Nat. 2 sér. V, p. 171 (1836) et Hist. Nat. Vég. V, p. 369 (1836).

III) **Triadenum** RAFINESQUE in New-York Medic. Reposit. (II), V, p. 352 (1808); BRITTON & BROWN, Illust. Fl. North. U.S. & Canada II, p. 436 (1897); BRITTON, Man. Fl. North State & Canada, p. 629 (1909); SMALL, Fl. South. U.S. p. 792 (1903); NAKAI, Chôsen-Shokubutu, p. 161 (1914).

Syn. *Hypericum* pro parte; LINNÆUS, Sp. Pl. ed. 2, II, p. 1011 (1763); JUSSIEU, Gen. Pl. p. 255 (1789); BENTHAM et HOOKER, Gen. Pl. I, p. 165 (1862).

Elodea ADANSON¹⁾ apud PURSH, Fl. Amer. Sept. II, p. 379 (1814); NUTTALL, Gen. North Amer. Pl. II, p. 17 (1818); SPACH in Ann. Sci. Nat. 2 sér. V, p. 165 et p. 353 (1836) et Hist. Nat. Vég. V, p. 363 (1836); BLUME, Mus. Bot. Lugd.-Batav. II, p. 14 (1852-1855); CHAPMAN, Fl. South. U.S. p. 42 (1872); TORREY & GRAY, Fl. North Amer. I, p. 167 (1838-1840); ENDLICHER, Gen. Pl. II, p. 1033 (1840) pro parte.

Hypericum sect. *Elodea* CHOISY, Prodr. Hyp. p. 43 (1821) et in DC. Prodr. I, p. 541 (1824); KELLER in Engler, Pf.-fam. ed. 1, III, Abt. 6, p. 209 (1895) et ed. 2, XXI, p. 175 (1925).

Martia SPRENGEL, Syst. Veg. III, p. 333 (1826) pro parte.

Elodes (non ADANSON) GRAY, Man. Bot. ed. 5, p. 86 (1872).

Typus generis :

3) **Triadenum virginicum** RAFINESQUE, Fl. Tellur. III, p. 79 (1836).

Syn. *Hypericum virginicum* LINNÆUS, Syst. Nat. X. p. 1184 (1759) et Sp. Pl. ed. 2 p. 1104, no. 15 (1763).

Elodea campanulata PURSH, Fl. Amer. Sept. II, p. 379 (1814).

Elodea virginica NUTTALL, Gen. North Amer. Pl. II, p. 17 (1818)

Martia virginica SPRENGEL, Syst. Veg. III, p. 333 (1826).

Elodes Virginia NUTTALL apud GRAY, Man. Bot. ed. 5, p. 86 (1872).

Triadenum RAFINESQUE.

Calyx campanulato-5-partitus; sepala fera æqualia, integerrima, margine tantum subimbricata, pellucido-striata. Petala 5, intus calva, æquilaterialia,

¹⁾ ADANSON never used *Elodea* for this genus. *Elodea* MICHAUX, Fl. Bor.-Amer. I, p. 20 (1820) is a valid generic name for a plant of *Hydrocharitaceæ*.

æstivatione imbricata v. contorta, marcescentia, rosea. Stamina persistentia, in phalanges 3 altius connata, phalangibus glandulis hypogynis alternantibus, 3-andris, liguliformibus, antheris stipitatis apice pellucido-tuberculatis. Glandulæ hypogynæ minimæ, subcoriaceæ. Ovarium facie longitudine pellucido-striatum, polyspermum; styli 3 filiformes, liberi; placenta parietalia 3 eximie producta et in centro loculi ovarii connata apice bilateralia, et in utroque latere longitudinali 2-seriale ovulata. Ovula anatropa horizontalia micropyllo exteriori. Capsula 3-valvis, septicide dehiscens, polysperma. Semina minima cylindrica, utrinque rotundata, exalata, elevato-reticulata.

Herbæ perennes, glaberrimæ; rhizoma repens ramosum, caulis terminalis; caules ramique teretes; folia opposita, amplexicaulia sessilia v. breviter petiolata, integerrima, pellucido-punctata. Racemus brevis 3 (1-5) florus, terminalis atque axillaris; bracteolæ 2, minimæ sub flores suffultæ.

The Japanese *Triadenum* includes one species and two varieties, and some formes.

Triadenum japonicum MAKINO, Shokubutu Zukwan p. 326, fig. 629 (1925).

Syn. *Elodea japonica* BLUME, Mus. Bot. Lugd.-Batav. II, p. 15, no. 35. (1852-1855).

Elodea crassifolia BLUME, l. c. no. 36.

Hypericum virginicum (non LINNÆUS) MIQUEL in Ann. Mus. Lugd.-Batav. II, p. 258, no. I (1866); FRANCHET et SAVATIER, Enum. Pl. Jap. I, p. 56, no. 232 (1874); LÉVEILLÉ in Bull. Soc. Bot. France, LIII, p. 503, no. 27 (1906); ROB. KELLER in Engler, Pf.-fam. ed. XXI, p. 176 (1925), pro parte.

Hypericum petiolatum (non WALTER) MIQUEL, l. c. no. 2, p. 259 (1866); FRANCHET et SAVATIER, l. c. no. 233 (1874) et l. c. II, p. 299 no. (233). (1878); LÉVEILLÉ, l. c. no. 25 (1906).

Elodes virginica NUTTALL var. *asiatica* MAXIMOWICZ in Mém. Biol. XI p. 155 (1881); MAKINO, Illus. Fl. Jap. Pl. IV (1888).

Hypericum virginicum Linnæus var. *asiatica* MAXIMOWICZ apud YATABE in Tokyo Bot. Mag. VI. p. 25 (1892) et Nihonshokubutuhon, p. 248, no. 4, fig. 259 (1902).

Hypericum Fauriei KELLER in Bull. Herb. Boiss. V, p. 637 (1897) et in Engler, Bot. Jahrb. XXXIII, p. 547 (1904); LÉVEILLÉ in Bull. Soc. Bot.

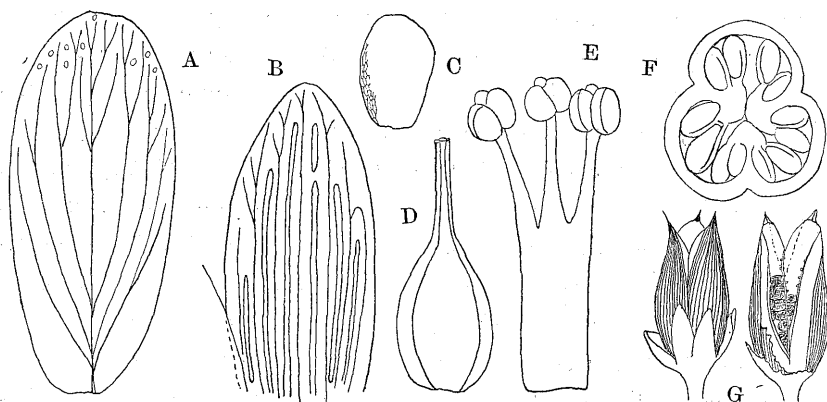


Fig. 1. Flower parts of *Triadenium japonicum* MAKINO. A. Petal; B. Sepal; C. Hypogynous gland; D. Pistil; E. Stamens in phalanx; F. Cross section of ovary; G. Capsule and capsule with one valve removed. (A-E \times 10; F \times 15; G \times 2).

France, LIII, p. 503 no. 29 (1906).

Hypericum virginicum LINNÆUS var. *asiaticum* NUTTALL apud R. KELLER in Engler, Bot. Jahrb. XXXIII, p. 547 (1904).

Hypericum similans R. KELLER, l. c. (1904); LÉVEILLÉ in Bull. Soc. Bot. France, LIII, p. 503, no. 26 (1906).

Elodes virginica NUTTALL var. *japonica* (BLUME) MAKINO in Tokyo Bot. Mag. XIX, p. 68 (1905).

Hypericum virginicum var. *japonicum* MATSUMURA, Index Pl. Jap. II, p. 370 (1912).

Elodes japonica BLUME apud MATSUMURA, Index Pl. Jap. p. 370 (1912); MAKINO et NEMOTO, Fl. Jap. p. 539 (1925).

Elodes crassifolia BLUME apud MATSUMURA, l. c. (1912).

Hypericum crassifolium (BLUME) NAKAI in Cat. Sem. & Spor. Hort. Bot. Tokyo. p. 25, no. 710 (1914) et in Tokyo Bot. Mag. XL, p. 344 (1926).

Hypericum crassifolium NAKAI var. *japonica* (BLUME) KOIDZUMI in Tokyo Bot. Mag. XL, p. 344 (1926).

Elodea virginiana var. *japonica* MAKINO apud KOIDZUMI, l. c. (1926).

Caulis simplex, erectus, ca. 50 cm. usque ad 1 m. altus, inferne 5 mm. diametens, teres, infra folium non decurrens, usque ad 20 nodosus, inferne rubi-

ginosus. Folia oblonga, lanceolato-oblonga v. lanceolato-ovata, apice obtusa, basi nunc rotundata, nunc subcordata (f. latifolium), nunc cuneata (f. cuneatum), 3-7 cm. longa, 1.2-3.5 cm. lata, sæpius internodiis duplo longiora, sessilia v. semi-amplexicaulia, ascendencia v. patentia, infra glauca, copiose et minutissime pellucido-punctulata. Flores breviter pedunculati. Sepala 4mm. longa 2 mm. lata, ovato-oblonga, obtusiuscula, paralleli-7-venosa, pellucido-striata, subferruginea. Petala 5 mm. longa, 2.3 mm. lata, elliptica, utrinque obtusa, apice tantum pauce pellucido-punctata. Stamina ca. 4 mm. longa, partem connatam filamentorum liberam æquans. Glanndulæ hypogynæ ca. 1 mm. longæ, orbiculares, compressæ, aurantiacæ. Pistillum ca. 3 mm. longum, ovaria ovoidea stylis duplo longiora, stylis-erectis. Capsula 1 cm. longa. Semina oblonga, ca. 1 mm. longa, atro-fusca.

f. typicum Y. KIMURA, f. nov.

Folia oblonga, basi rotundata.

Nom. Jap. *Mizu-Otogiri*.

Hab. in

Hokkaidô. Prov. Kitami : Abasiri (H. IWAMOTO, no. 735, 7 Aug. 1913). Prov. Kusiuro : Kusiuro (legitor ? 13 Aug. 1884). Prov. Iburi (legitor ?) Prov. Osima : Junsainuma (Y. TOKUBUCHI, 17 Aug. 1888).

Hondô. Prov. Mutu : mont. Aomori (legitor ?). Prov. Rikuchû : Morioka G. TOBA no. 324., 17. Sept. 1929). Prov. Rikuzen : Sendai (K. HISAUCHI, 8 Aug. 1930). Prov. Kazusa : Naruto (T. TUYAMA no. 27 Oct. 1932). Prov. Musasi : Shakuji (Y. KIMURA no. 4073 Aug. 1934). Prov. Hida : Bijotôge (T. MAKINO, 14 Aug. 1925). Prov. Iga : Mihata (S. KUROKAWA no. 27, 2 Oct. 1934). Prov. Kii : Inari (T. NAKAJIMA, 31. Oct. 1925). Prov. Nagato : Sasanami (J. NIKAI no. 370, 28 Aug. 1896) : Tokusa (T. ODA no. 2882, 27 Sept. 1931).

Kyûshû. Prov. Buzen : Minetu (HAMADA no. 93, Sept. 1904).

f. latifolium Y. KIMURA, f. nov.

Folia late oblonga v. ovata, basi subcordata.

Nom. Jap. *Hiroha-Mizu-Otogiri*.

Hab. in

Hondô. Prov. Musasi : Nisiogikubo (Y. KIMURA no. 1826, 24 Sept. 1943); ibidem (Y. KIMURA no. 4072, 21 Aug. 1934.—Typus in Herb. Imp. Univ.

Tokyoensis); Shakujii (K. HISAUCHI, 19 Oct. 1919). Prov. Sagami; Yokohama (K. HISAUCHI, 19 Sept. 1914).

f. cuneatum Y. KIMURA, f. nov.

Folia oblonga, basi cuneata.

Nom. Jap. *Heraha-Mizu-Otogiri*.

Hab. in

Kyûshû. Prov. Higo: Suemura (K. MAYEBARA, 22 Sept. 1919—Typus in Herb. Imp. Univ. Tokyoensis). Prov. Satuma: Katume-mura (Y. Doi, 4 Nov. 1934).

Note. The form and size of leaves are very variable and a strict line of difference could not be clearly drawn. This species, *T. japonicum* MAKINO differs entirely from the American species, *T. virginicum* RAFINESQUE as follows.

<i>T. japonicum</i> MAKINO	<i>T. virginicum</i> RAFINESQUE
Sepala 4 mm. longa.	5.5 mm. longa.
Petala elliptica, utrinque obtusa, 5 mm. longa, 2.3 mm. lata.	oblonga, utrinque acuta, 8.5 mm. longa, 3 mm. lata.
Pars connata filamentorum liberam æquans.	Pars connata filamentorum liberam multo breviora.
Ovarium ovoideum, stylis duplo longius.	oblongum, stylis æquilongum.
Capsula ovoidea.	oblonga.
Folia basi sæpius rotundata.	cordata.

The Korean plant should be regarded as a form of *T. japonicum* MAKINO.

f. turfosum (KELLER) KIMURA, comb. nov.

Syn. *Elodea virginica* (non LINNÆUS) REGEL, Tent. Fl. Ussur. p. 32, no. 104 (1861).

Triadenum asiaticum (MAXIMOWICZ) KOMAROV, Fl. Manshuriae. III, p. 45, no. 1093 (1905).

Hypericum asiaticum (MAXIMOWICZ) NAKAI, Fl. Kor. I, p. 97 (1909).

Triadenum crassifolia (BLUME) NAKAI, Chôsenshokubutu, p. 503, no. 213, fig. 195 (1914).

Hypericum crassifolium (BLUME) KAKAI in Rep. Diamond Mt. p. 179, no. 443 (1918) et in Mori, Enum. Pl. Cor. p. 252 (1922).

Hypericum turfosum ROB. KELLER in Engler Bot. Jahrb. LVIII, p. 190 (1923).

Hypericum Taqueti KELLER, l. c. (1923). (non LÉVEILLÉ et VANIOT¹⁾ 1908).

Caulis ca. 30 cm. altus. Folia anguste oblonga, apice obtusa basi angustata, sessilia. Semina elliptica, quam typo latiora.

Nom. Jap. *Kôrai-Mizu-Otogiri*.

Hab. in

Korea. Prov. Kôgen: Mont. Kongô, Onseiri (T. NAKAI no. 5654, 30 Jul. 1916); inter Chôsen et Kôjô (T. NAKAI no. 5651, 28 Jul. 1916); Fukendô (T. NAKAI no. 5656, 26 Aug. 1916). Prov. Keinan: Tokuzan (T. MORI no. 228. Aug. 1912).

***Triadenum japonicum* MAKINO var. *humile* Y. KIMURA, var. nov.**

Caulis humilis 10–15 cm. altus, 6–8 nodosus. Folia oblonga v. lanceolata, sessilia. Flores axillares sæpius solitarii.

Nom. Jap. *Numa-Otogiri*.

Hab. in

Hondô: Prov. Simotuke: Nikkô Senjôgahara (legitôr? 2 Aug. 1885); ibidem (H. ITÔ, 1931); ibidem (Y. KIMURA no. 3157, 3 Jul. 1934); ibidem (Y. KIMURA no. 4417 no. 4418, 22 Aug. 1935 et no. 4543, 23 Aug. 1935—Typus in Herb. Imp. Univ. Tokyoensis). Prov. Sinano: Simotakai (H. KOIDZUMI no. 22663, 17 Aug. 1930); Simoina, Igara (H. KOIDZUMI, no. 22662).

Note. The dwarfish character of this plant does not change even in a cultivated condition. The plant growing with other tall plants reaches to 30 cm., but the number of nodes is always 6–8.

***Triadenum japonicum* MAKINO var. *angustifolium* Y. KIMURA, var. nov.**

Syn. *Hypericum crassifolium* NAKAI in Saishûtô Chôsa Hôkoku. p. 64 (1914).

Caulis ca. 50 cm. altus, superne internodiis brevissimis et foliis confertis. Folia angusta, lineari-oblonga, 3–4.5 cm. longa, 0.6–1.2 cm. lata, sessilia, pellucido-punctata. Capsula minora, 7 mm. longa. Semina elliptica.

¹⁾ According to Prof. NAKAI, *Hypericum Taqueti* LÉVEILLÉ et VANIOT is the typical form of *Hypericum japonicum* THUNBERG.

Nom. Jap. *Hosoba-Mizu-Otogiri*.

Hab. in

Korea : Quelpaert : in humidis littoris (TAQUET no. 6623, Aug. 1911—Typus in Herb. Imp. Univ. Tokyoensis) et ibidem (TAQUET).

みづおとぎりハ *Triadenum* = 屬シ他ノおとぎりさう *Hypericum* ト區別セラレル事ハ、三個ノ雄蕊ハソノ融合甚ダシイ事、雄蕊群ノ間ニ腺體ヲ有スル事等ニヨリ明カデアル。我が國ノみづおとぎりハ北米ノみづおとぎり *Triadenum virginicum* RAFINESQUE (Marsh St. John's-wort) = 近イガ全然別種デアル。歐洲ノみづおとぎり (Marsh St. John's-wort, Millepertuis des Marais, Sumpf Hartheu) ハ花瓣ニ附屬物アリ、且ツ子房ハ完全ニ一室デ胎座ハ接シテキナイ等ノ點デ屬ヲワケルベキデ佛國ノ ÉDOUARD SPACH ハ之ニ *Elodes* ナル屬名ヲ與ヘタ。然ルニ *Elodes* ナル名ハ ADANSON ガ既ニ埃及ヤ地中海ノ島ニ産スルアルおとぎりさうニツケテキル。故ニ筆者ハ之ニ新ラシイ名 *Spachelodes* (SPACH ノ *Elodes* ノ意) ヲツケタ。ADANSON ノツケタ *Elodes* ハ小灌木ノモノデ、花瓣ニ附屬物アリ雄蕊ハ數多ク、胎座ハ室ノ中央デ接シテキル。コノ様ニ *Triadenum* RAFINESQUE, *Spachelodes* Y. KIMURA, *Elodes* ADANSON ハ互ヒニ最モ近イ三屬デアルガ區別スベキデアル。

みづおとぎりノ學名ハ *Triadenum japonicum* MAKINO ガ適當デアル。北海道、本道、四國、九州、朝鮮、滿洲、「ウスリー」地方ニ産シ、川邊、沼、濕地ニ生エテ、他ノおとぎりさうノ花ノ勢衰ヘル午後ニナツテ暫シノ間、肉色ノ小花ヲ開ク。

Triadenum japonicum MAKINO ノ品種トシテ、

f. typicum Y. KIMURA みづおとぎり (水弟切)

f. latifolium Y. KIMURA ひろはみづおとぎり (廣葉水弟切)

f. cuneatum Y. KIMURA へらはみづおとぎり (笹葉水弟切)

f. turfosum Y. KIMURA こうらいみづおとぎり (高麗水弟切)

ひろはみづおとぎりハ葉廣ク稍、心脚、へらはみづおとぎりハ葉ノ基部楔形ヲナス。こうらいみづおとぎりハ朝鮮ニ産シ種子ハ稍幅廣イ。

Triadenum japonicum MAKINO ノ變種トシテ、

var. humile Y. KIMURA ぬまおとぎり (沼弟切)

var. angustifolium Y. KIMURA ほそばみづおとぎり (細葉水弟切)

ぬまおとぎりハ丈低クソノ性質ハ栽培ニヨツテ變ズル事ハナイ。ほそばみづおとぎりハ濟州島ニ産シ朔果ハ小デ葉ハ細イ。

此ノ研究ハ終始、中井教授ノ御懇切ナル御指導ノモトニアツテ成ツタモノデ、此處ニ記シテ篤ク御禮申上ゲマス。又、東京科學博物館ノ標本及圖書ノ閱覽ヲ許サレタ根本莞爾氏、及ビ各地ノ標本ヲ送ツテ下サル方々ニ感謝スルト共ニ今後ノ御援助ヲ賜リタイ。

子持高嶺いちごつなぎ考

竹 中 要

Y. TAKENAKA: Notes on *Poa alpina* var. *vivipara* KOCH.

凡ソ草木ト呼バルハモノニ花ヲ見ザルハナク、生命ノ歡喜ヲ花ニ現ハシ、草木ノ道ヲ嚮イデソノ日ノ量トスル輩ニサヘ宇宙ノ神祕ヲ悟ラシメ、貧シキ精神ヲ天國ノ花園ヘ高メシム。不可思議ナル哉、草木ノ世界ニモ虚偽ノアルナラン。屢々墮落シテ花ヲ開クモ果實ヲ結バザルモノアリ。中ニモ身ハ高嶺ニアリナガラ獄道ニ陥込ミ、花ヲ開ク習慣サヘ忘レテ、生命ヲ永存ヘルニ仔芽ヲ以テスル不屈者ニこもちたかねいちごつなぎ (*Poa alpina*, L. var. *vivipara* KOCH.) トナン申シテ高嶺ノ岩場ヲ好ミテ宿ル草アリ。物ノ本ニ依レバ蟹行蚊脚國ニハ多ク見ラルハ、モ神集ル日本ニハ甚ダ稀ナリト云フ。武田博士ノ「高山植物ノ話」(大正十三年)ニハ「然シ高山上デハ常ニコノ無性芽ヲ生ズルモノトハ限ラナイ

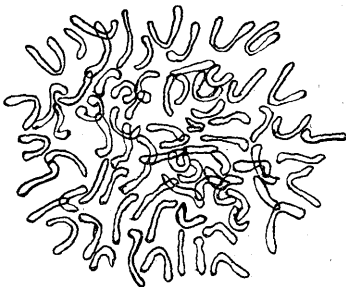


Fig. 1. Polar view of a somatic nuclear plate, showing 77 chromosomes, of *Poa alpina* L. var. *vivipara* KOCH.

體ノ生長後ノ狀況ニツキ目下栽培及觀察中ニテ確信アル御返事ヲスルマデニ到ラズ。何卒惡カラズ。尤モ結實セルモノアラバ勿論種子ハオ送りシマス」ナ

デ、通常ノ花ヲ開クモノモアルシ、時ニハ穂ノ一部ハ正常花ヲツケ、一部ハ無性芽ヲ生ズル枝ヲツケルコトモアル」ト見エ、同ジク「高山植物圖彙」(昭和八年)ニハ「花ハ盡ク仔芽ニ由テ置換ヘラレ、……歐洲ニハ甚デ普通ニ見ルガ、本邦デハ八ヶ岳ニ知ラレルノミ」ト記載サレタリ。田邊和雄學士ヨリノ私信ニ依レバ「シカシたかねいちごつなぎトこもちたかねいちごつなぎトニツイテハ武田博士並ニ小生モ前者ノ結實可能性ヤ後者ノむかごヨリ發生シタル個